[CLAIMS]



- 1. A method for manufacturing a Thin Film Inorganic Light Emitting Diode device, said method comprising the following steps, in order,:
 - (1) preparing a nanoparticle dispersion of ZnS doped with a luminescent centre by precipitation from appropriate aqueous solutions comprising zinc ions, sulfide ions and dopant ions,
 - (2) washing said dispersion of doped ZnS to remove non-precipitated ions,
 - (3) coating onto a first conductive electrode said washed dispersion of doped ZnS, optionally after admixture with a binder,
 - (4) applying on top of said coated layer resulting from step (3) a second conductive electrode, with the proviso that at least one of said first and second electrode is transparent.
- 2. A method according to claim 1 wherein said precipitation of step
 (1) is performed according to the double jet principle whereby a
 first solution containing zinc ions and a second solution
 containing sulfide ions are added together to a third solution.
- 3. A method according to claim & wherein said first solution also contains said dopant ions.
- 4. A method according to claim 1 wherein said dopant ions are Cu^{2+} ions.
- 5. A method according to ϕ laim 1 wherein said dopant ions are Cu^+ ions.
- 6. A method according to claim 1 wherein said dopant ions are Mn^{2+} ions.
- 7. A method according to claims 1 wherein said washing of said dispersion of doped ZnS is performed by an ultrafiltration and/or diafiltration step.

- 8. A method according to claim 7 wherein said ultrafiltration and/or diafiltration step is (are) performed in the presence of a compound preventing agglomeration of panoparticles.
- 9. A method according to claim 8 wherein said compound preventing the agglomeration of nanoparticles is a polyphosphate or polyphosphoric acid.
- 10. A method according to claim 1/wherein said first electrode is an Indium Tin Oxide (ITO) electrode.
- 11. A method according to claim 1 wherein said first electrode is a foil comprising a polythiophene/polyanion complex.
- 12. A method according to claim 11 wherein said polythiophene/polyanion complex is a poly(3,4-ethylenedioxythiophene)/polystyrene sulphonate complex.
- 13. A method according to claim 1 wherein said second conductive electrode is an aluminum electrode applied by vacuum deposition.
- 14.A Thin Film Inorganic Light Emitting Diode device manufactured according to the method of any of the previous claims.